

**What is claimed is:**

1.

A carbon nanoball for deodorization comprising a porous carbon shell having a  
5 spherical hollow core,

wherein at least one deodorizing material selected from the group consisting of transition metal, oxidized transition metal and alkali metal salt is impregnated to the shell,

wherein the porous carbon shell has a multi-layered structure in which at least 10 two layers having different pore sizes are included, and

wherein an average diameter of pores formed in an outer layer is larger than an average diameter of pores formed in an inner layer or vice versa.

2. A carbon nanoball for deodorization according to claim 1,

15 wherein the transition metal is one selected from the group consisting of Copper (Cu), Iron (Fe), Manganese (Mn), Nickel (Ni), Cobalt (Co), Silver (Ag), Gold (Au), Vanadium (V), Ruthenium (Re), Titanium (Ti), Chrome (Cr), Zinc (Zn) and Palladium (Pd), and

wherein the alkali metal salt is one selected from the group consisting of sodium bromide (NaBr), sodium iodide (NaI), potassium bromide (KBr), potassium iodide (KI) and potassium iodate (KIO<sub>3</sub>).

3. A carbon nanoball for deodorization according to claim 1 or 2,

20 wherein an impregnated amount of the deodorizing material is 0.01 ~ 30 wt% on the basis of the total weight of the carbon nanoball for deodorization.

4. A carbon nanoball for deodorization according to claim 1 or 2, wherein the spherical hollow core has a diameter of 5 ~ 1,000nm, and the porous carbon shell has a thickness of 10 ~ 500nm.